

Our Ref. 1728.03

Claim Amendment under 37 CFR 1.121(c)

1. (Cancelled)
2. (Previously Presented) A liquid composition for promoting plant growth, which contains titanium dioxide nanoparticles, in which the composition contains, as a main component, an aqueous solution containing titanium dioxide colloids; the titanium dioxide nanoparticles have a particle size ranging from 3 to 200 nm; a pH of the aqueous solution is adjusted with organic or inorganic acid in order to prevent rapid precipitation of the titanium dioxide nanoparticles in the aqueous solution, and the composition contains adjuvants necessary for plant growth one or more selected from the silver nanoparticles, the fertilizer ingredients; and a surfactant for dispersion, one or more selected from a cationic surfactant, a nonionic surfactant, an anionic surfactant, an amphoteric surfactant.
3. (Cancelled)
4. (Original) The composition of Claim 2, in which the titanium dioxide colloids has a crystal structure selected from the group consisting of anatase, rutile, brookite and a mixture thereof.
5. (Cancelled)
6. (Cancelled)
7. (Previously Presented) The composition of Claim 2, in which the surfactant for dispersion is selected from the group consisting of a cationic surfactant, a nonionic surfactant, an anionic surfactant, an amphoteric surfactant, and a mixture of two or more thereof, which are used at the

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amount of 0.1 to 5% by weight relative to the titanium dioxide solids.

8. (Previously Presented) The composition of Claim 2, in which the adjuvants necessary for plant growth are in the form of a water soluble salt of one or more element selected from the group consisting of N, P, K, S, Ca, Mg, Fe, Cu, Zn, Mo, Mn and B, which are used at the amount of 0.1 to 20% by weight relative to the titanium dioxide solids.
9. (Original) The composition of Claim 2, in which the adjuvants necessary for plant growth are silver (Ag) nanoparticles which are used at the amount of 0.5 to 20% by weight relative to the titanium dioxide solids.
10. (Original) The composition of Claim 2, in which the adjuvants necessary for plant growth are one or more selected from the group consisting of Li, Be, B, Na, Mg, Al, Si, P, K, Ca, Sr, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, Se and Zr, which are used at the amount of 0.1 to 20% by weight relative to the titanium dioxide solids.
11. (Previously Presented) The composition of Claim 2, in which the aqueous solution is diluted with water such that a titanium dioxide concentration is in the range of 1 to 1,000 ppm, when applied to the foliage of crops.